

5-2-86

To John Osborn
From Frederick Wolt

Subj: Dioxin in Landfill Reports.

Ecology and Environment has done an excellent job on the two (2) reports that I reviewed for you. These sites are significant sources of organic contamination ^{of} to the subsurfaces. The quantities of ^{chemical} waste disposed there in are amazing. This is a point Scava frequently raised and as it turned out he was "right-on".

I am concerned that chemical wastes disposed ⁱⁿ into an anaerobic environment pose a more serious situation than if they were simply buried in the subsurface. Since the anaerobic conditions present at a landfill result in Methane and H₂S gasses, the gas - groundwater - synthetic chemical migration is profoundly important. Partitioning between dioxin - soil - groundwater could be seriously affected by a flux of anaerobic gasses - and this issue should be addressed in a risk assessment (exposure assessment) for these sites.

